

AMENDMENTS

In the Claims

Cancel claims 1-8, 12, and 13 without prejudice to further prosecution in a divisional application.

Claim Amendments

A clean version of the amended claim is shown below. Attached to this Response is a **VERSION WITH MARKINGS TO SHOW CHANGES MADE**.

9. (Amended) A tunable power amplifier comprising:
- a power amplifier;
 - a ferro-electric tunable component coupled to the power amplifier;
 - a power amplifier output matching circuit coupled to the power amplifier, having an impedance and comprising the ferro-electric tunable component;
 - a control line operably coupled to the ferro-electric component;
 - a control source electrically coupled to the control line, the control source configured to transmit a control signal on the control line;
 - wherein the ferro-electric component, responsive to the control signal, adjusts the impedance of the matching circuit; and
 - wherein the matching circuit comprises:
 - a first tunable ferro-electric capacitor coupled at a first end of the first capacitor to an output of the power amplifier and to ground at a second end of the first capacitor;
 - an inductive element coupled at a first end of the inductor to the first tunable capacitor and to the power amplifier, and;
 - a second tunable ferro-electric capacitor coupled, at a first end of the second capacitor to a second end of the inductive element and to ground at a second end of the second capacitor;
 - wherein, the ferro-electric component comprises one of the ferro-electric tunable capacitors;
 - a second inductive element coupled at a first end of the second inductive element to the second end of the first inductive element; and
 - a third ferro-electric tunable capacitor coupled at a first end of the third capacitor to a second end of the second inductive element and at a second end of the third capacitor to ground.